

July 13, 2001



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DIALOG(R) File 351:Derwent WPI

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012276369 \*\*Image available\*\*

WPI Acc No: 1999-082475/199908

Production of roof lining material - involves treating a hydrophobic nonwoven web to form a skin for heating with reinforcement layers before the flat bed lamination stage

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Inventor: KLEIN H

Number of Countries: 082 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19729533	A1	19990114	DE 1029533	A	19970710	199908 B
WO 9902797	A1	19990121	WO 98EP2862	A	19980514	199910
AU 9876547	A	19990208	AU 9876547	A	19980514	199924

Priority Applications (No Type Date): DE 1029533 A 19970710

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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DE 19729533	A1	10		D04H-001/56	
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WO 9902797	A1	G		E04D-012/00	
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Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9876547	A			E04D-012/00	Based on patent WO 9902797
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Abstract (Basic): DE 19729533 A

In the continuous prodn. of web materials, for roof linings, the hydrophobic nonwoven (9) passes through a special heating stage (8) before the flatbed lamination station (1), where the skin is formed with residual pores.

Also claimed is a material, as a non-woven felting (9) with a skin of residual pores, which is bonded to a reinforcement grid at least on one side, fused to it. The grid structure has bumps at the grid intersections.

USE - The material is for roof lining applications.

ADVANTAGE - The multi-layer material, as a plastics nonwoven felting, has a high mechanical performance, and a vapour permeability at the water pressure sealing to meet the standard of DIN-EN 20 811.

Dwg.1/9

Derwent Class: A17; A23; A32; A93; F04; P73; Q45

International Patent Class (Main): D04H-001/56; E04D-012/00

International Patent Class (Additional): B32B-005/26; B32B-031/20;

D04H-003/16; D04H-005/06; D04H-013/00; E04D-001/36